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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (Previously Presented): A slitter blade assembly for cutting off a workpiece,

comprising:

a drum-shaped rotary blade; and

a disk-shaped rotary blade;

said disk-shaped rotary blade having a cutting edge, a first beveled surface facing said

drum-shaped rotary blade and progressively spaced from said drum-shaped rotary blade toward

said cutting edge, and a second beveled surface facing the workpiece and progressively spaced

from said cutting edge away from the workpiece, wherein a first distance (CL) of said first

beveled surface up from said cutting edge along a severance plane perpendicular to a surface of

the workpiece is set to a value which ranges from 40 µm to 200 µm and a first angle (q6) of said

first beveled surface from said severance plane is set to a value which ranges from 0.8° to 14°.

2. (Previously Presented): A slitter blade assembly according to claim 1, wherein a

second angle (q1) of said second beveled surface from said severance plane is set to a value

which ranges from 65° to 85°.

3. (Previously Presented): A slitter blade assembly according to claim 2, wherein said

disk-shaped rotary blade has a first clearance surface contiguous to said first beveled surface, and

a third angle (q3) of said first clearance surface from said severance plane is set to a value which

ranges from 2° to 5°.

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4. (Previously Presented): A slitter blade assembly according to claim 2, wherein said disk-shaped rotary blade has a second clearance surface contiguous to said second beveled surface, and a fourth angle (q2) of said second clearance surface from said severance plane is set to a value which ranges from 20° to 45°.

- 5. (Previously Presented): A slitter blade assembly according to claim 4, wherein said second beveled surface and said second clearance surface are joined to each other at a junction, and a second distance (L1) from said junction to said severance plane is set to a value which ranges from 0.2 mm to 0.8 mm.
- 6. (Currently Amended): A slitter blade assembly for cutting off a workpiece, comprising:

a drum-shaped rotary blade; and

a disk-shaped rotary blade;

said disk-shaped rotary blade having a cutting edge, a first beveled surface facing said drum-shaped rotary blade and progressively spaced from said drum-shaped rotary blade toward said cutting edge, and a second beveled surface facing the workpiece and progressively spaced from said cutting edge away from the workpiece, wherein said cutting edge of the disk-shaped rotary blade has irregularities continuously disposed along a circumference of the disk-shaped rotary blade, said irregularities having an irregularity quantity (G) set to a value which ranges from 0.5 µm to 5 µm and the irregularity quantity (G) is substantially along a radial direction of the disk-shaped rotary blade perpendicular to a rotational axis of the disk-shaped rotary blade, wherein the irregularities include plural periodicity.

7. (Original): A slitter blade assembly according to claim 1, wherein said disk-shaped rotary blade and/or said drum-shaped rotary blade is made of a cemented carbide.

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toward said cutting edge.

8. (Withdrawn): A slitter blade assembly for cutting off a workpiece, comprising:

a drum-shaped rotary blade; and

a disk-shaped rotary blade;

said drum-shaped rotary blade having a cutting edge and a third beveled surface facing said disk-shaped rotary blade and progressively spaced from said disk-shaped rotary blade

9. (Withdrawn): A slitter blade assembly according to claim 8, wherein the distance HL of said third beveled surface up to said cutting edge along a severance plane perpendicular to a surface of the workpiece is set to a value which ranges from 25 μ m to 500 μ m, and the angle q5 of said third beveled surface from said severance plane is set to a value which ranges from 0.0° to 0.6°.

10. (Withdrawn): A slitter blade assembly according to claim 9, wherein said drumshaped rotary blade has a third clearance surface contiguous to said third beveled surface, and the angle q4 of said third clearance surface from said severance plane is set to a value which ranges from 2° to 4°.

11. (Withdrawn): A slitter blade assembly according to claim 8, wherein said disk-shaped rotary blade and/or said drum-shaped rotary blade is made of a cemented carbide.

12. (Withdrawn): A slitter blade assembly for cutting off a workpiece, comprising:

a drum-shaped rotary blade; and

a disk-shaped rotary blade;

said disk-shaped rotary blade having a cutting edge, a first beveled surface facing said drum-shaped rotary blade and progressively spaced from said drum-shaped rotary blade toward said cutting edge of the disk-shaped rotary blade, and a second beveled surface facing the

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workpiece and progressively spaced from said cutting edge of the disk-shaped rotary blade away from the workpiece;

said drum-shaped rotary blade having a cutting edge and a third beveled surface facing said disk-shaped rotary blade and progressively spaced from said disk-shaped rotary blade toward said cutting edge of the drum-shaped rotary blade.

- 13. (Withdrawn): A slitter blade assembly according to claim 12, wherein said disk-shaped rotary blade and/or said drum-shaped rotary blade is made of a cemented carbide.
- 14. (Withdrawn): A slitter blade assembly according to claim 12, wherein the distance CL of said first beveled surface up to said cutting edge along a severance plane perpendicular to a surface of the workpiece is set to a value which ranges from 40 µm to 200 µm, the angle q6 of said first beveled surface from said severance plane is set to a value which ranges from 0.8° to 14°, the angle q1 of said second beveled surface from said severance plane is set to a value which ranges from 65° to 85°, the distance HL of said third beveled surface up to said cutting edge along a severance plane is set to a value which ranges from 25 µm to 500 µm, and the angle q5 of said third beveled surface from said severance plane is set to a value which ranges from 0.0° to 0.6°.
- 15. (Previously Presented): A slitter blade assembly according to claim 1, wherein said cutting edge is spaced apart from the severance plane perpendicular to a surface of the workpiece.
- 16. (Previously Presented): A slitter blade assembly according to claim 1, further comprising a means for rotating the drum-shaped rotary blade in unison with the disk-shaped rotary blade.

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17. (previously presented): A slitter blade assembly for cutting off a workpiece,

comprising:

a drum-shaped rotary blade; and

a disk-shaped rotary blade;

said disk-shaped rotary blade having a cutting edge, a first beveled surface facing said drum-shaped rotary blade and progressively spaced from said drum-shaped rotary blade toward

said cutting edge, and a second beveled surface facing the workpiece and progressively spaced

from said cutting edge away from the workpiece, wherein the drum-shaped rotary blade is

disposed on a drum shaft, the disk-shaped rotary blade is disposed on a disk shaft, and the slitter

blade assembly further comprising means for transmitting driving force between the drum shaft

and the disk shaft,

wherein a first distance (CL) of said first beveled surface up from said cutting edge along

a severance plane perpendicular to a surface of the workpiece is set to a value which ranges from

40μm to 200μm and a first angle (q6) of said first beveled surface from said severance plane is

set to a value which ranges from 0.8° to 14°.

18. (Previously Presented): A slitter blade assembly according to claim 6, wherein said

irregularities having a saw-tooth shape or an undulating shape and said irregularity quantity

being a distance from a bottom to a top of one of the irregularities.

19. (Previously Presented): A slitter blade assembly according to claim 17, wherein the

drum shaft and the disk shaft are operably connected to rotate in unison.

20. (Previously Presented): A slitter blade assembly according to claim 17, wherein the

means for transmitting the driving force comprises gears.

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21. (Previously Presented): A slitter blade assembly according to claim 6, wherein the drum-shaped rotary blade comprises at least one groove and the disk-shaped rotary blade is operable to enter the at least one groove of the drum-shaped rotary blade.

- 22. (Previously Presented): A slitter blade assembly according to claim 6 further comprising a plurality of disk-shaped rotary blades, wherein the disk-shaped rotary blade is one of a plurality of a disk-shaped rotary blades, the drum-shaped rotary blade comprises a plurality of grooves, each of the plurality of disk-shaped rotary blades corresponding to one of the plurality of grooves.
- 23. (Previously Presented): A slitter blade assembly according to claim 22, wherein the plurality of grooves are disposed on a surface of the drum-shaped rotary blade.
- 24. (Previously Presented): A slitter blade assembly according to claim 17, wherein the drum-shaped rotary blade comprises at least one groove and the disk-shaped rotary blade is operable to enter the at least one groove of the drum-shaped rotary blade.
- 25. (Previously Presented): A slitter blade assembly according to claim 17 further comprising a plurality of disk-shaped rotary blades, wherein the disk-shaped rotary blade is one of a plurality of a disk-shaped rotary blades, the drum-shaped rotary blade comprises a plurality of grooves, each of the plurality of disk-shaped rotary blades corresponding to one of the plurality of grooves.
- 26. (Previously Presented): A slitter blade assembly according to claim 25, wherein the plurality of grooves are disposed on a surface of the drum-shaped rotary blade.
- 27. (New): A slitter blade assembly according to claim 6, wherein said irregularities are continuously disposed around the entire circumference of the disk-shaped rotary blade.